

SYSTEM AND METHOD FOR OVERLAYING DSL ACCESS MULTIPLEXER ONTO EXISTING ACCESS SYSTEMS

ABSTRACT OF THE DISCLOSURE

5 A digital subscriber line access multiplexer overlay onto a digital loop carrier system for transporting high speed digital data over an existing backplane which carries voice, data, and test signals between voice line cards and a carrier line. The voice signals are time division multiplexed into frames. The system includes a data bus interface for
10 impressing the high speed data on a subset of existing backplane buses for transport along the backplane and for retrieving high speed digital data from the backplane buses. The system further includes a plurality of data line cards for connecting to the backplane and backplane subset conductors, the data line cards being adapted to couple the high speed data between the subscriber line and the backplane, whereby the high speed digital data can be routed over
15 the backplane subset to any of the digital data line cards without interfering with the voice signals routed to voice line cards.

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